

Amendments to the Specification (where added material is shown in underlined type, deleted material is shown in ~~strikeout type~~.)

[0066] In addition, the auxiliary winding 408 in FIG. 4 is used to drive the gates of the forward rectifier 370 and free-wheeling synchronous rectifier 380. As a result, the charging energy of the forward rectifier 370 can be used for part of output (Vo) energy or to charge up the gate of the free-wheeling rectifier 380, thereby creating still higher efficiency. In FIG. 5, by contrast, the auxiliary winding 408 is used to drive the gate of the forward rectifier 370 only. A diode 410 is included in the embodiment in FIG. 5 to block the charging energy flowing to the secondary ground when auxiliary winding 408 is reversing polarity in order to use up the energy for output (Vo), thereby causing higher efficiency efficiency.